

ABSTRACT OF THE DISCLOSURE

A microprocessor temperature control system including a microprocessor with on-chip fan control logic, a fan, and temperature sense logic. The fan control logic receives temperature information and provides a fan control signal to cool the microprocessor. The fan is externally mounted to the microprocessor and has a control input that receives the fan control signal. The temperature sense logic provides the temperature information associated with the microprocessor. The fan control logic may be configured to turn the fan on and off or to control rotational speed of the fan. The temperature sense logic may include at least one temperature sensitive device placed on the die of the microprocessor. In addition or in the alternative, the temperature sense logic is external to the microprocessor for providing the temperature information via an external interface.